

(FILE 'HOME' ENTERED AT 17:41:26 ON 23 JUL 2001)

FILE 'MEDLINE, BIOSIS, CANCERLIT' ENTERED AT 17:41:40 ON 23 JUL 2001

L1 223 S MASPIN
L2 26062 S SQUAMOUS(S) (HEAD OR NECK OR ORAL)
L3 14 S L1 AND L2
L4 6 DUP REM L3 (8 DUPLICATES REMOVED)
L5 19 S MAMMARY(5A)SERPIN
L6 0 S L2 AND L5

=> s squamous(s)lung

L7 17620 SQUAMOUS(S) LUNG

=> s l5 and l7

L8 0 L5 AND L7

=> s l1 and l7

L9 0 L1 AND L7

The activation of PPAR. gamma. by TZDs causes a remarkable morphological and biochemical response in breast

cancer cells. Neutral lipid accumulation is prominent, as are changes in gene expression. This includes increased expression of a marker of normal breast development, the protease inhibitor maspin, that has been

shown to have tumor suppresser activity in ectopic expression/transplantation studies (Zou, Z. et al. Science

256:526-529 (1994)]. Conversely, two epithelial markers associated with a malignant state, mucin-1 and 265

karatin 19, are both suppressed by PPAR. gamma. activation. While the cells appear morphologically similar to

cultured fat cells, they express no markers characteristic of this lineage. Hence, these cells can best be described as undergoing fatty epithelial differentiation, perhaps recapitulating some version of a lactation

response. This response does not appear to be specific for cancer cells. HC11, a murine cell line established

from normal tissue, shows a similar lipid accumulation and changes in gene expression with TZD activation of

PPAR. gamma. (data not shown).

DEPR:

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
JPAB,EPAB,DWPI	l14 and squamous	0	<u>L15</u>
JPAB,EPAB,DWPI	mammary near5 serpin	1	<u>L14</u>
JPAB,EPAB,DWPI	l11 and l12	0	<u>L13</u>
JPAB,EPAB,DWPI	squamous with (head or neck or oral)	145	<u>L12</u>
JPAB,EPAB,DWPI	maspin	13	<u>L11</u>
USPT	l4 and l3	0	<u>L10</u>
USPT	l4 and l2	0	<u>L9</u>
USPT	l1 and l3	2	<u>L8</u>
USPT	l1 and l3	2	<u>L7</u>
USPT	l1 and l2	0	<u>L6</u>
USPT	l1 same l2	0	<u>L5</u>
USPT	mammary near5 serpin	15	<u>L4</u>
USPT	squamous with lung	734	<u>L3</u>
USPT	squamous with (head or neck or oral)	584	<u>L2</u>
USPT	maspin	33	<u>L1</u>